Appendix Table 4-19

R&D performed abroad by majority-owned foreign affiliates of U.S. parent companies, by selected NAICS industry of affiliate: 2009–13

(Millions of current U.S. dollars)

Industry	NAICS code	2009	2010	2011	2012	2013
All industries	na	39,205	39,887	44,684	44,983	48,750
Mining	21	119	42	119	304	337
Oil and gas extraction	211	D	14	23	98	90
Other	na	D	27	97	206	247
Manufacturing	31–33	27,141	27,481	30,332	30,497	31,741
Food	311	514	534	617	520	496
Beverage and tobacco products	312	71	86	91	90	63
Textile, apparel, and leather products	313-16	68	70	75	69	70
Wood products	321	2	2	7	8	4
Paper manufacturing	322	66	68	184	89	100
Printing and related support activities	323	9	23	14	8	11
Petroleum and coal products	324	D	D	D	D	D
Chemicals	325	8,757	8,348	9,287	9,153	9,483
Basic chemicals	3251	174	201	299	297	300
Resin, synthetic rubber, fiber, and filament	3252	295	290	277	369	337
Pharmaceuticals and medicines	3254	7,436	7,115	7,703	7,165	7,170
Soap, cleaning compound, and toilet preparation	3256	222	208	303	598	666
Other	na	630	534	705	724	1,010
Plastic and rubber products	326	329	386	552	530	552
Nonmetallic mineral products	327	93	109	121	103	62
Primary and fabricated metals	na	245	279	352	283	353



Industry	NAICS code	2009	2010	2011	2012	2013
Primary metals	331	61	108	139	110	144
Fabricated metal products	332	184	171	214	172	208
Machinery	333	1,361	1,451	2,210	2,214	2,404
Agriculture, construction, and mining machinery	3331	421	477	682	709	854
Industrial machinery	3332	280	294	655	671	640
Other	na	661	681	874	835	910
Computer and electronic products	334	6,108	5,922	5,476	7,074	7,481
Computer and peripheral equipment	3341	963	827	882	850	1,061
Communication equipment	3342	D	D	968	891	1,137
Audio and video equipment	3343	D	D	292	314	269
Semiconductor and other electronic components	3344	2,590	2,797	2,478	4,033	3,968
Navigational, measuring, and other instruments	3345	870	858	856	986	1,046
Magnetic and optical media	3346	*	*	*	*	1
Electrical equipment, appliances, and components	335	532	700	709	681	565
Transportation equipment	336	7,837	7,796	8,400	7,700	7,797
Motor vehicles, bodies and trailers, and parts	3361, 3362, 3363	7,276	7,249	7,707	7,048	7,002
Other	na	561	547	694	652	795
Furniture and related products	337	7	29	18	27	28
Miscellaneous manufacturing	339	D	D	D	D	D
Wholesale trade	42	2,074	1,928	2,580	2,510	4,170
Professional and commercial equipment and supplies	4234	1,165	1,247	1,322	1,254	1,399
Petroleum and petroleum products	4247	2	2	2	1	1
Drugs and druggists' sundries	4242	514	D	800	715	2,150
Other	na	393	D	456	539	619
Retail trade	44-45	D	26	33	29	31



Industry	NAICS code	2009	2010	2011	2012	2013
General merchandise stores	452	D	1	1	1	1
Clothing and clothing accessories stores	448	0	0	1	2	2
Other	na	D	25	31	26	28
Information	51	1,698	2,618	3,024	3,214	3,393
Publishing	511	1,407	D	D	D	D
Motion picture and sound recording industries	512	0	0	0	0	1
Broadcasting (except Internet) and telecommunications	na	D	5	12	31	36
Broadcasting (except Internet)	515	*	1	1	0	0
Telecommunications	517	D	4	11	31	36
Data processing, hosting, and related services	518	D	14	27	29	34
Other information services	519	252	D	D	D	D
Finance and insurance	52	1	6	D	D	D
Depository credit intermediation (banking)	5221, 551111	0	*	D	D	D
Finance (except depository institutions)	other 522, 523, 525	1	6	6	10	17
Insurance carriers and related activities	524	0	0	0	0	0
Professional, scientific, and technical services	54	8,080	7,683	8,241	8,065	8,598
Architectural, engineering, and related services	5413	107	101	D	86	D
Computer systems design and related services	5415	2,270	2,049	1,937	2,122	2,376
Management, scientific, and technical consulting	5416	418	324	412	410	438
Advertising and related services	5418	3	1	1	1	1
Other	na	5,284	5,208	D	5,447	D
Other industries	na	D	102	D	D	D
Agriculture, forestry, fishing, and hunting	11	4	D	D	D	D
Construction	23	1	2	3	1	3
Utilities	22	1	5	2	12	11



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Industry	NAICS code	2009	2010	2011	2012	2013
Transportation and warehousing	48-49	3	3	2	2	2
Real estate, rental, and leasing	53	1	1	2	3	3
Management of nonbank companies and enterprises	55 (except 551111)	4	5	4	4	5
Administration, support, and waste management	56	23	27	30	48	60
Health care and social assistance	62	0	0	*	2	1
Accommodation and food services	72	4	D	D	D	D
Miscellaneous services	na	D	10	10	11	12

 $* = \le $500,000$; D = suppressed to avoid disclosure of confidential information; na = not applicable.

NAICS = North American Industry Classification System.

NOTES:

Data are for majority-owned (> 50%) foreign affiliates (bank and nonbank) of U.S. parent companies. Data include R&D expenditures performed by affiliates, whether for themselves or for others under contract. Data exclude R&D expenditures by others for affiliates under contract. Industries are classified by the U.S. Bureau of Economic Analysis using the international surveys industry classification system based on the NAICS. For data before 2009, see appendix table 4-27 in *Science and Engineering Indicators 2014*, http://www.nsf.gov/statistics/seind14/index.cfm/appendix/tables.htm.

SOURCE:

U.S. Bureau of Economic Analysis, Direct Investment and Multinational Enterprises (annual series), http://www.bea.gov/iTable/index_MNC.cfm, accessed 18 August 2015.

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